

\$%^STN;HighlightOn= \*\*\*;HighlightOff=\*\*\* ;

Welcome to STN International! Enter x:x

LOGINID:sssptal65lpxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN  
International \* \* \* \* \*

NEWS 1 Web Page URLs for STN  
Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help  
around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and  
Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications  
available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com  
available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now  
available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress  
(FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for  
search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains  
STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28,  
2002;  
saved answer sets no longer  
valid  
NEWS 14 Jul 29 Enhanced polymer searching  
in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from  
STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)  
- new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and  
enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information  
Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of  
TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in  
REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and  
enhanced  
NEWS 24 Sep 16 Experimental properties  
added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus  
available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with  
Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search  
fields  
NEWS 29 Oct 24 Nutraceuticals International  
(NUTRACEUT) now available on STN

NEWS 30 Oct 25 MEDLINE SDI run of October  
8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed  
APOLLIT  
NEWS 32 Nov 25 More calculated properties  
added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from  
STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT  
Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with  
additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight  
now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-  
1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS  
VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS  
V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS  
DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help  
Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and  
Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site  
(general information)

Enter NEWS followed by the item number or name  
to see news on that  
specific topic.

All use of STN is subject to the provisions  
of the STN Customer  
agreement. Please note that this agreement  
limits use to scientific  
research. Use for software development or  
design or implementation  
of commercial gateways or other similar uses  
is prohibited and may  
result in loss of user privileges and other  
penalties.

\* \* \* \* \* STN Columbus \* \*  
\* \* \* \* \*

FILE 'HOME' ENTERED AT 11:38:13 ON 14 JAN 2003

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,  
AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,  
BIOCOMMERCE, BIOSIS, BIOTECHABS,  
BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,

CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,  
CROPB, CROPU, DDFB, DDFU, DGENE,  
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'  
ENTERED AT 11:38:23 ON 14 JAN 2003

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term  
postings or to view  
search error messages that display as 0\* with  
SET DETAIL OFF.

=> s zinc? (4a) potassium? (4a) calcium? (4a)  
rubidium

1 FILE ANABSTR  
1 FILE AQUASCI  
36 FILE BIOSIS  
7 FILE CABA  
13 FILES SEARCHED...  
3 FILE CAPLUS  
1 FILE CROPU  
5 FILE EMBASE  
3 FILE FROSTI  
37 FILES SEARCHED...  
1 FILE HEALSAFE  
5 FILE IFIPAT  
4 FILE MEDLINE  
1 FILE NIOSHTIC  
1 FILE NTIS  
1 FILE PASCAL  
2 FILE SCISEARCH  
9 FILE TOXCENTER  
37 FILE USPATFULL  
1 FILE USPAT2  
62 FILES SEARCHED...  
4 FILE WPIDS  
4 FILE WPINDEX

20 FILES HAVE ONE OR MORE ANSWERS, 64  
FILES SEARCHED IN STNINDEX

L1 QUE ZINC? (4A) POTASSIUM? (4A) CALCIUM?  
(4A) RUBIDIUM

=> s l1 (s) (skin? or wound? or heal? or  
epiderm? or cutic? or lacerat? or ulcer?)

12 FILES SEARCHED...  
23 FILES SEARCHED...  
33 FILES SEARCHED...  
0\* FILE FEDRIP  
45 FILES SEARCHED...  
50 FILES SEARCHED...  
58 FILES SEARCHED...  
1 FILE USPATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 64  
FILES SEARCHED IN STNINDEX

L2 QUE L1 (S) (SKIN? OR WOUND? OR HEAL? OR  
EPIDERM? OR CUTIC? OR LACERAT? OR  
ULCER?)

=> s l1 (s) (skin? or wound? or heal? or  
epiderm? or cutic? or lacerat? or ulcer? or  
topical? or cream? or antisept? or transderm?)

13 FILES SEARCHED...  
22 FILES SEARCHED...  
30 FILES SEARCHED...

0\* FILE FEDRIP  
34 FILES SEARCHED...  
45 FILES SEARCHED...  
55 FILES SEARCHED...  
1 FILE USPATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 64  
FILES SEARCHED IN STNINDEX

L3 QUE L1 (S) (SKIN? OR WOUND? OR HEAL? OR  
EPIDERM? OR CUTIC? OR LACERAT? OR  
ULCER? OR TOPICAL? OR CREAM? OR  
ANTISEPT? OR TRANSDERM?)

=>  
Connection closed by remote host

Welcome to STN International! Enter x:x

LOGINID:sssptal65lpxp

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN  
International \*\*\*\*\*

NEWS 1 Web Page URLs for STN  
Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help  
around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and  
Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications  
available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com  
available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now  
available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress  
(FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for  
search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains  
STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28,  
2002;  
saved answer sets no longer  
valid  
NEWS 14 Jul 29 Enhanced polymer searching  
in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from  
STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)  
- new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and  
enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information  
Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of  
TOXCENTER has been reloaded

NEWS 22 Aug 26 Sequence searching in  
 REGISTRY enhanced  
 NEWS 23 Sep 03 JAPIO has been reloaded and  
 enhanced  
 NEWS 24 Sep 16 Experimental properties  
 added to the REGISTRY file  
 NEWS 25 Sep 16 CA Section Thesaurus  
 available in CAPLUS and CA  
 NEWS 26 Oct 01 CASREACT Enriched with  
 Reactions from 1907 to 1985  
 NEWS 27 Oct 21 EVENTLINE has been reloaded  
 NEWS 28 Oct 24 BEILSTEIN adds new search  
 fields  
 NEWS 29 Oct 24 Nutraceuticals International  
 (NUTRACEUT) now available on STN  
 NEWS 30 Oct 25 MEDLINE SDI run of October  
 8, 2002  
 NEWS 31 Nov 18 DKILIT has been renamed  
 APOLLIT  
 NEWS 32 Nov 25 More calculated properties  
 added to REGISTRY  
 NEWS 33 Dec 02 TIBKAT will be removed from  
 STN  
 NEWS 34 Dec 04 CSA files on STN  
 NEWS 35 Dec 17 PCTFULL now covers WP/PCT  
 Applications from 1978 to date  
 NEWS 36 Dec 17 TOXCENTER enhanced with  
 additional content  
 NEWS 37 Dec 17 Adis Clinical Trials Insight  
 now available on STN  
 NEWS 38 Dec 30 ISMEC no longer available  
 NEWS 39 Jan 13 Indexing added to some pre-  
 1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS  
 VERSION IS V6.01a,  
 CURRENT MACINTOSH VERSION IS  
 V6.0b(ENG) AND V6.0Jb(JP),  
 AND CURRENT DISCOVER FILE IS  
 DATED 01 OCTOBER 2002  
 NEWS HOURS STN Operating Hours Plus Help  
 Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and  
 Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site  
 (general information)

Enter NEWS followed by the item number or name  
 to see news on that  
 specific topic.

All use of STN is subject to the provisions  
 of the STN Customer  
 agreement. Please note that this agreement  
 limits use to scientific  
 research. Use for software development or  
 design or implementation  
 of commercial gateways or other similar uses  
 is prohibited and may  
 result in loss of user privileges and other  
 penalties.

\* \* \* \* \* STN Columbus \* \*  
 \* \* \* \* \*

Welcome to STN International! Enter x:x

LOGINID:sssptal65lpxp

PASSWORD:  
 \* \* \* \* \* RECONNECTED TO STN INTERNATIONAL  
 \* \* \* \* \*  
 SESSION RESUMED IN FILE 'HOME' AT 13:48:39 ON  
 17 JAN 2003  
 FILE 'HOME' ENTERED AT 13:48:39 ON 17 JAN 2003  
 COST IN U.S. DOLLARS  
 SINCE FILE TOTAL

ENTRY SESSION  
 FULL ESTIMATED COST  
 0.21 0.21

=> index bioscience napralert

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
 COST IN U.S. DOLLARS  
 SINCE FILE TOTAL

ENTRY SESSION  
 FULL ESTIMATED COST  
 0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,  
 AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,  
 BIOCOMMERCE, BIOSIS, BIOTECHABS,  
 BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,  
 CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,  
 CROPB, CROPU, DDFB, DDFU, DGENE,  
 DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'  
 ENTERED AT 13:49:03 ON 17 JAN 2003

65 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term  
 postings or to view  
 search error messages that display as 0\* with  
 SET DETAIL OFF.

=> s (ca? or calcium) (s) (kcl or kpo? or  
 potassium?) (s) (zn? or zinc?) (s) (rubidium  
 or rb?)

5 FILE AGRICOLA  
 4 FILES SEARCHED...  
 9 FILE ANABSTR  
 12 FILE AQUASCI  
 6 FILES SEARCHED...  
 2 FILE BIOBUSINESS  
 7 FILES SEARCHED...  
 116 FILE BIOSIS  
 9 FILES SEARCHED...  
 3 FILE BIOTECHABS  
 10 FILES SEARCHED...  
 3 FILE BIOTECHDS  
 5 FILE BIOTECHNO  
 12 FILES SEARCHED...  
 32 FILE CABA  
 13 FILES SEARCHED...  
 4 FILE CANCERLIT  
 14 FILES SEARCHED...  
 87 FILE CAPLUS  
 1 FILE CEABA-VTB  
 16 FILES SEARCHED...  
 18 FILES SEARCHED...  
 1 FILE CROPU  
 24 FILES SEARCHED...  
 3 FILE DRUGU

```

34 FILE EMBASE
32 FILES SEARCHED...
8 FILE ESBIOBASE
33 FILES SEARCHED...
1* FILE FEDRIP
12 FILE FROSTI
37 FILES SEARCHED...
3 FILE FSTA
0* FILE GENBANK
39 FILES SEARCHED...
1 FILE HEALSAFE
282 FILE IFIPAT
9 FILE JICST-EPLUS
42 FILES SEARCHED...
12 FILE LIFESCI
44 FILES SEARCHED...
35 FILE MEDLINE
46 FILES SEARCHED...
17 FILE NIOSHTIC
30 FILE NTIS
48 FILES SEARCHED...
3 FILE OCEAN
0* FILE PASCAL
50 FILES SEARCHED...
54 FILES SEARCHED...
5 FILE PROMT
55 FILES SEARCHED...
55 FILE SCISEARCH
56 FILES SEARCHED...
37 FILE TOXCENTER
58 FILES SEARCHED...
0* FILE USPATFULL
17 FILE USPAT2
60 FILES SEARCHED...
1 FILE VETB
2 FILE VETU
0* FILE WPIDS
0* FILE WPINDEX
64 FILES SEARCHED...

=> s ll (s) (topical? or skin? or epiderm? or
ulcer? or lacerat? or cut? or scrape? or heal?
or wound?)

```

L1 NOT FOUND

The L-number entered could not be found. To see the definition of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> index bioscience napralert

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	
24.75	24.96

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

ENTERED AT 14:16:13 ON 17 JAN 2003

65 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s ll

L1 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s (ca? or calcium) (s) (kcl or kpo? or potassium?) (s) (zn? or zinc?) (s) (rubidium or rb?)

```

5 FILE AGRICOLA
4 FILES SEARCHED...
9 FILE ANABSTR
12 FILE AQUASCI
6 FILES SEARCHED...
2 FILE BIOBUSINESS
7 FILES SEARCHED...
116 FILE BIOSIS
9 FILES SEARCHED...
3 FILE BIOTECHABS
10 FILES SEARCHED...
3 FILE BIOTECHDS
11 FILES SEARCHED...
5 FILE BIOTECHNO
12 FILES SEARCHED...
32 FILE CABA
13 FILES SEARCHED...
4 FILE CANCERLIT
14 FILES SEARCHED...
87 FILE CAPLUS
1 FILE CEABA-VTB
16 FILES SEARCHED...
18 FILES SEARCHED...
1 FILE CROPU
24 FILES SEARCHED...
3 FILE DRUGU
34 FILE EMBASE
32 FILES SEARCHED...
8 FILE ESBIOBASE
33 FILES SEARCHED...
1* FILE FEDRIP
12 FILE FROSTI
37 FILES SEARCHED...
3 FILE FSTA
0* FILE GENBANK
39 FILES SEARCHED...
1 FILE HEALSAFE
282 FILE IFIPAT
41 FILES SEARCHED...
9 FILE JICST-EPLUS
43 FILES SEARCHED...
12 FILE LIFESCI
44 FILES SEARCHED...
35 FILE MEDLINE
46 FILES SEARCHED...
17 FILE NIOSHTIC
30 FILE NTIS
48 FILES SEARCHED...
3 FILE OCEAN
0* FILE PASCAL
50 FILES SEARCHED...
54 FILES SEARCHED...

```

```

5 FILE PROMT
55 FILES SEARCHED...
55 FILE SCISEARCH
56 FILES SEARCHED...
37 FILE TOXCENTER
58 FILES SEARCHED...
0* FILE USPATFULL
17 FILE USPAT2
60 FILES SEARCHED...
1 FILE VETB
2 FILE VETU
0* FILE WPIDS
0* FILE WPINDEX

=>
Connection closed by remote host

Welcome to STN International! Enter x:x

LOGINID:sssptal65lpxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN
International * * * * *

NEWS 1 Web Page URLs for STN
Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help
around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and
Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications
available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com
available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now
available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress
(FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for
search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains
STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28,
2002;

saved answer sets no longer
valid
NEWS 14 Jul 29 Enhanced polymer searching
in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from
STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)
- new on STN
NEWS 18 Aug 08 NTIS has been reloaded and
enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information
Retrieval (AQUIRE)

now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB
have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of
TOXCENTER has been reloaded

```

```

NEWS 22 Aug 26 Sequence searching in
REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and
enhanced
NEWS 24 Sep 16 Experimental properties
added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus
available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with
Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search
fields
NEWS 29 Oct 24 Nutraceuticals International
(NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October
8, 2002
NEWS 31 Nov 18 DKILIT has been renamed
APOLLIT
NEWS 32 Nov 25 More calculated properties
added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from
STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT
Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with
additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight
now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-
1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS
VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS
V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS
DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help
Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and
Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site
(general information)

```

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \*

FILE 'HOME' ENTERED AT 15:37:28 ON 17 JAN 2003

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,  
AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,  
BIOCOMMERCE, BIOSIS, BIOTECHABS,  
BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,  
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,  
CROPB, CROPU, DDFB, DDFU, DGENE,  
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'  
ENTERED AT 15:37:45 ON 17 JAN 2003

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term  
postings or to view  
search error messages that display as 0\* with  
SET DETAIL OFF.

=> s (rb? or rubidium?) (s) (ca? or calcium?)  
(s) (kcl or potassium?) (s) (zn? or zinc?)

5 FILE AGRICOLA  
4 FILES SEARCHED...  
9 FILE ANABSTR  
12 FILE AQUASCI  
6 FILES SEARCHED...  
2 FILE BIOBUSINESS  
7 FILES SEARCHED...  
116 FILE BIOSIS  
9 FILES SEARCHED...  
3 FILE BIOTECHABS  
10 FILES SEARCHED...  
3 FILE BIOTECHDS  
11 FILES SEARCHED...  
5 FILE BIOTECHNO  
12 FILES SEARCHED...  
32 FILE CABA  
13 FILES SEARCHED...  
4 FILE CANCERLIT  
14 FILES SEARCHED...  
87 FILE CAPLUS  
1 FILE CEABA-VTB  
16 FILES SEARCHED...  
18 FILES SEARCHED...  
1 FILE CROPU  
24 FILES SEARCHED...  
3 FILE DRUGU  
34 FILE EMBASE  
32 FILES SEARCHED...  
8 FILE ESBIODBASE  
33 FILES SEARCHED...  
1\* FILE FEDRIP  
12 FILE FROSTI  
37 FILES SEARCHED...  
3 FILE FSTA  
0\* FILE GENBANK  
39 FILES SEARCHED...  
1 FILE HEALSAFE  
282 FILE IFIPAT  
41 FILES SEARCHED...  
9 FILE JICST-EPLUS  
43 FILES SEARCHED...

12 FILE LIFESCI  
44 FILES SEARCHED...  
35 FILE MEDLINE  
46 FILES SEARCHED...  
17 FILE NIOSHTIC  
30 FILE NTIS  
48 FILES SEARCHED...  
3 FILE OCEAN  
0\* FILE PASCAL  
50 FILES SEARCHED...  
54 FILES SEARCHED...  
5 FILE PROMT  
55 FILES SEARCHED...  
55 FILE SCISEARCH  
56 FILES SEARCHED...  
37 FILE TOXCENTER  
58 FILES SEARCHED...  
0\* FILE USPATFULL  
17 FILE USPAT2  
60 FILES SEARCHED...  
1 FILE VETB  
2 FILE VETU  
0\* FILE WPIDS  
0\* FILE WPINDEX

=> s ll and topic?

L1 NOT FOUND  
The L-number entered could not be found. To  
see the definition  
of L-numbers, enter DISPLAY HISTORY at an  
arrow prompt (=>).

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

Welcome to STN International! Enter x:x

LOGINID:ssspal65lpxp

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN  
International \* \* \* \* \*

NEWS 1 Web Page URLs for STN  
Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help  
around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and  
Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications  
available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com  
available in CAPLUS, HCAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now  
available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress  
(FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for  
search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains  
STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28,  
2002;

saved answer sets no longer  
valid  
NEWS 14 Jul 29 Enhanced polymer searching  
in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from  
STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)  
- new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and  
enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information  
Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of  
TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in  
REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and  
enhanced  
NEWS 24 Sep 16 Experimental properties  
added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus  
available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with  
Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search  
fields  
NEWS 29 Oct 24 Nutraceuticals International  
(NUTRACEUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October  
8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed  
APOLLIT  
NEWS 32 Nov 25 More calculated properties  
added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from  
STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT  
Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with  
additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight  
now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-  
1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS  
VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS  
V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS  
DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help  
Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and  
Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site  
(general information)

Enter NEWS followed by the item number or name  
to see news on that  
specific topic.

All use of STN is subject to the provisions  
of the STN Customer  
agreement. Please note that this agreement  
limits use to scientific  
research. Use for software development or  
design or implementation  
of commercial gateways or other similar uses  
is prohibited and may  
result in loss of user privileges and other  
penalties.

\* \* \* \* \* STN Columbus \* \*  
\* \* \* \* \*

FILE 'HOME' ENTERED AT 14:22:18 ON 21 JAN 2003

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,  
AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,  
BIOCOMMERCE, BIOSIS, BIOTECHABS,  
BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,  
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,  
CROPB, CROPU, DDFB, DDFU, DGENE,  
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'  
ENTERED AT 14:22:28 ON 21 JAN 2003

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term  
postings or to view  
search error messages that display as 0\* with  
SET DETAIL OFF.

=> s (zn? or zinc) (s) (ca? or calcium) (s)  
(rubidium or rb?) (s) (kcl or potassium)

5 FILE AGRICOLA  
4 FILES SEARCHED...  
9 FILE ANABSTR  
12 FILE AQUASCI  
6 FILES SEARCHED...  
2 FILE BIOBUSINESS  
7 FILES SEARCHED...  
116 FILE BIOSIS  
9 FILES SEARCHED...  
3 FILE BIOTECHABS

3 FILE BIOTECHDS  
 11 FILES SEARCHED...  
 5 FILE BIOTECHNO  
 12 FILES SEARCHED...  
 32 FILE CABA  
 13 FILES SEARCHED...  
 4 FILE CANCERLIT  
 14 FILES SEARCHED...  
 87 FILE CAPLUS  
 1 FILE CEABA-VTB  
 16 FILES SEARCHED...  
 18 FILES SEARCHED...  
 1 FILE CROPU  
 24 FILES SEARCHED...  
 3 FILE DRUGU  
 31 FILES SEARCHED...  
 34 FILE EMBASE  
 32 FILES SEARCHED...  
 8 FILE ESBIOBASE  
 33 FILES SEARCHED...  
 1\* FILE FEDRIP  
 12 FILE FROSTI  
 37 FILES SEARCHED...  
 3 FILE FSTA  
 0\* FILE GENBANK  
 39 FILES SEARCHED...  
 1 FILE HEALSAFE  
 282 FILE IFIPAT  
 41 FILES SEARCHED...  
 9 FILE JICST-EPLUS  
 43 FILES SEARCHED...  
 12 FILE LIFESCI  
 44 FILES SEARCHED...  
 35 FILE MEDLINE  
 46 FILES SEARCHED...  
 17 FILE NIOSHTIC  
 30 FILE NTIS  
 48 FILES SEARCHED...  
 3 FILE OCEAN  
 0\* FILE PASCAL  
 50 FILES SEARCHED...  
 54 FILES SEARCHED...  
 5 FILE PROMT  
 55 FILES SEARCHED...  
 55 FILE SCISEARCH  
 56 FILES SEARCHED...  
 37 FILE TOXCENTER  
 58 FILES SEARCHED...  
 0\* FILE USPATFULL  
 17 FILE USPAT2  
 60 FILES SEARCHED...  
 1 FILE VETB  
 2 FILE VETU  
 0\* FILE WPIDS  
 0\* FILE WPINDEX

=>

Connection closed by remote host

Welcome to STN International! Enter x:x

LOGINID:ssspal65lpxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN  
 International \* \* \* \* \*

NEWS 1 Web Page URLs for STN  
 Seminar Schedule - N. America  
 NEWS 2 Apr 08 "Ask CAS" for self-help  
 around the clock  
 NEWS 3 Apr 09 BEILSTEIN: Reload and  
 Implementation of a New Subject Area  
 NEWS 4 Apr 09 ZDB will be removed from STN  
 NEWS 5 Apr 19 US Patent Applications  
 available in IFICDB, IFIPAT, and IFIUDB  
 NEWS 6 Apr 22 Records from IP.com  
 available in CAPLUS, HCAPLUS, and ZCAPLUS  
 NEWS 7 Apr 22 BIOSIS Gene Names now  
 available in TOXCENTER  
 NEWS 8 Apr 22 Federal Research in Progress  
 (FEDRIP) now available  
 NEWS 9 Jun 03 New e-mail delivery for  
 search results now available  
 NEWS 10 Jun 10 MEDLINE Reload  
 NEWS 11 Jun 10 PCTFULL has been reloaded  
 NEWS 12 Jul 02 FOREGE no longer contains  
 STANDARDS file segment  
 NEWS 13 Jul 22 USAN to be reloaded July 28,  
 2002;  
 saved answer sets no longer  
 valid  
 NEWS 14 Jul 29 Enhanced polymer searching  
 in REGISTRY  
 NEWS 15 Jul 30 NETFIRST to be removed from  
 STN  
 NEWS 16 Aug 08 CANCERLIT reload  
 NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)  
 - new on STN  
 NEWS 18 Aug 08 NTIS has been reloaded and  
 enhanced  
 NEWS 19 Aug 19 Aquatic Toxicity Information  
 Retrieval (AQUIRE)  
 now available on STN  
 NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
 have been reloaded  
 NEWS 21 Aug 19 The MEDLINE file segment of  
 TOXCENTER has been reloaded  
 NEWS 22 Aug 26 Sequence searching in  
 REGISTRY enhanced  
 NEWS 23 Sep 03 JAPIO has been reloaded and  
 enhanced  
 NEWS 24 Sep 16 Experimental properties  
 added to the REGISTRY file  
 NEWS 25 Sep 16 CA Section Thesaurus  
 available in CAPLUS and CA  
 NEWS 26 Oct 01 CASREACT Enriched with  
 Reactions from 1907 to 1985  
 NEWS 27 Oct 21 EVENTLINE has been reloaded  
 NEWS 28 Oct 24 BEILSTEIN adds new search  
 fields  
 NEWS 29 Oct 24 Nutraceuticals International  
 (NUTRACEUT) now available on STN  
 NEWS 30 Oct 25 MEDLINE SDI run of October  
 8, 2002  
 NEWS 31 Nov 18 DKILIT has been renamed  
 APOLLIT  
 NEWS 32 Nov 25 More calculated properties  
 added to REGISTRY  
 NEWS 33 Dec 02 TIBKAT will be removed from  
 STN  
 NEWS 34 Dec 04 CSA files on STN  
 NEWS 35 Dec 17 PCTFULL now covers WP/PCT  
 Applications from 1978 to date  
 NEWS 36 Dec 17 TOXCENTER enhanced with  
 additional content



NEWS 37 Dec 17 Adis Clinical Trials Insight  
now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-  
1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS  
VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS  
V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS  
DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help  
Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and  
Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site  
(general information)

Enter NEWS followed by the item number or name  
to see news on that  
specific topic.

All use of STN is subject to the provisions  
of the STN Customer  
agreement. Please note that this agreement  
limits use to scientific  
research. Use for software development or  
design or implementation  
of commercial gateways or other similar uses  
is prohibited and may  
result in loss of user privileges and other  
penalties.

\* \* \* \* \* STN Columbus \* \*  
\* \* \* \* \*

FILE 'HOME' ENTERED AT 15:04:45 ON 21 JAN 2003

=> fil biosis medline caplus napralert

COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
0.21 0.21

FILE 'BIOSIS' ENTERED AT 15:04:54 ON 21 JAN  
2003  
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS  
INC. (R)

FILE 'MEDLINE' ENTERED AT 15:04:54 ON 21 JAN  
2003

FILE 'CAPLUS' ENTERED AT 15:04:54 ON 21 JAN  
2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN  
CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY  
(ACS)

FILE 'NAPRALERT' ENTERED AT 15:04:54 ON 21 JAN  
2003

COPYRIGHT (C) 2003 Board of Trustees of the  
University of Illinois,  
University of Illinois at Chicago.

=> s (ca? or calcium) (s) (zn? or zinc) (s)  
(kcl? or potassium) (s) (rb? or rubidium)

1 FILES SEARCHED...

2 FILES SEARCHED...

L1 244 (CA? OR CALCIUM) (S) (ZN? OR  
ZINC) (S) (KCL? OR POTASSIUM) (S)  
(RB? OR RUBIDIUM)

=> dup rem l1

PROCESSING COMPLETED FOR L1  
L2 213 DUP REM L1 (31 DUPLICATES  
REMOVED)

=> s l2 and (skin? or topical? or epiderm? or  
wound?)

L3 3 L2 AND (SKIN? OR TOPICAL? OR  
EPIDERM? OR WOUND?)

=> d l3 1- all

YOU HAVE REQUESTED DATA FROM 3 ANSWERS -  
CONTINUE? Y/(N):y

L3 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003  
BIOLOGICAL ABSTRACTS INC.  
AN 2001:271153 BIOSIS  
DN PREV200100271153  
TI Compositions of oak bark extract related  
synthetic compositions and method  
of using same.  
AU Hon, David N.-S (1); Stanley, R. Thomas  
CS (1) Clemson, SC USA  
ASSIGNEE: Greystone Medical Group, Inc.,  
Memphis, TN, USA  
PI US 6149947 November 21, 2000  
SO Official Gazette of the United States  
Patent and Trademark Office Patents,  
(Nov. 21, 2000) Vol. 1240, No. 3, pp. No  
Pagination. e-file.  
ISSN: 0098-1133.  
DT Patent  
LA English  
AB Higher concentrations of oak bark ash  
extract, i.e., greater than 20% by  
weight, are useful for the treatment of  
\*\*\*skin\*\*\* \*\*\*cancers\*\*\* .  
Lower concentrations of oak bark extract  
possess additional therapeutic  
properties not heretofore recognized. For  
example, preparations containing  
40-80% oak bark extract are useful in the  
treatment of acute  
\*\*\*cancerous\*\*\* \*\*\*skin\*\*\*  
ulcers. In addition, synthetic mixtures  
containing \*\*\*potassium\*\*\* ions,  
\*\*\*zinc\*\*\* ions, \*\*\*calcium\*\*\*  
ions provide many of the same  
advantageous properties of oak bark extract.  
The inclusion of \*\*\*rubidium\*\*\* ions  
and sulfur is also advantageous  
for some applications.  
NCL 424641000  
IT Major Concepts

Methods and Techniques; Pharmacognosy  
(Pharmacology)  
IT Diseases  
    \*\*\*skin\*\*\* cancer: integumentary  
system disease, neoplastic disease  
IT Chemicals & Biochemicals  
    oak bark ash extract: antineoplastic -  
drug  
IT Alternate Indexing  
    \*\*\*Skin\*\*\* Neoplasms (MeSH)

L3 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2003  
BIOLOGICAL ABSTRACTS INC.  
AN 1987:190873 BIOSIS  
DN BA83:98997  
TI COMPARISON OF DISTRIBUTION OF TRACE AND  
OTHER ELEMENTS IN HEART AND  
SKELETAL MUSCLE AND SERUM IN RATS BEARING  
A TRANSPLANTABLE FIBROSARCOMA.  
AU LARSSON S; KARLBERG I; PETERSSON H-I;  
SELIN E  
CS LAB. BIORHEOL., DEP. SURG. I, SAHLGREN'S  
UNIV. HOSP., S-413 45 GÖTEBORG,  
SWEDEN.  
SO TRACE ELEM MED, (1986) 3 (1), 5-10.  
CODEN: TEMDE6.  
FS BA; OLD  
LA English  
AB \*\*\*Cancer\*\*\* \*\*\*cachexia\*\*\* is a  
potential feature of all  
malignant diseases. The reason for this  
wasting of peripheral tissue is  
not yet fully understood, but anorexia  
and decreased food intake as well  
as pathologic energy production due to  
recycling of glucose and glucose  
precursors from peripheral tissues have  
all been implicated. Specimens  
from serum and from normal skeletal and  
heart muscle tissue were taken  
from Lister rats bearing a transplantable  
intramuscular  
methylcholanthrene-induced fibrosarcoma  
during an early phase of tumor  
disease when no anorexia was apparent.  
These specimens were studied by  
energy dispersive x-ray fluorescence  
spectrometry to obtain a quantitative  
evaluation of trace element  
concentrations. We found an increased  
concentration of iron and copper in serum  
during tumor growth whereas  
heart muscle showed an associated  
decrease of these ions. In skeletal  
muscle no such decrease of iron content  
occurred. \*\*\*Zinc\*\*\*, a factor  
of major importance in \*\*\*wound\*\*\*  
healing, decreased in serum and  
increased in skeletal and heart muscle  
tissue. Selenium decreased in serum  
during tumor growth and increased in  
heart muscle. In skeletal muscle the  
selenium content was below the limits of  
detection. Correlations between  
the various elements were also studied.  
Some of these included ions with  
few known effects, suggesting a  
significant biological role. Strong  
correlations were found for the  
distribution of chlorine and bromine as

well as for \*\*\*potassium\*\*\* and  
\*\*\*rubidium\*\*\*. In these  
correlations copper appeared to have  
kinetic properties different from  
the other trace elements. Deterioration  
of heart muscle function,  
decreased heart muscle protein synthesis  
and decreased numbers of  
myofibrils in hearts from tumor-bearing  
rats have been shown elsewhere.  
The decreased content of iron found in  
this study is consistent with a  
decrease in contractile proteins in  
hearts from tumor-bearing rats. The  
redistribution of \*\*\*zinc\*\*\* that was  
found from serum to skeletal  
muscle may be part of a defense  
mechanism secondary to the  
\*\*\*cachetic\*\*\* reaction. Ions with  
known significance for heart muscle  
performance, e.g. \*\*\*potassium\*\*\* and  
\*\*\*calcium\*\*\*, were not  
significantly changed in hearts from  
tumor-bearing compared to  
non-tumor-bearing rats.  
CC Biochemical Studies - Proteins, Peptides  
and Amino Acids 10064  
Biochemical Studies - Minerals 10069  
Metabolism - Minerals \*13010  
Metabolism - Proteins, Peptides and Amino  
Acids \*13012  
Metabolism - Metabolic Disorders \*13020  
Nutrition - Malnutrition; Obesity \*13203  
Nutrition - Minerals \*13206  
Cardiovascular System - Heart Pathology  
\*14506  
Blood, Blood-Forming Organs and Body  
Fluids - Blood and Lymph Studies  
\*15002  
Muscle - Pathology \*17506  
Bones, Joints, Fasciae, Connective and  
Adipose Tissue - Pathology \*18006  
Neoplasms and Neoplastic Agents -  
Pathology; Clinical Aspects; Systemic  
Effects \*24004  
Neoplasms and Neoplastic Agents -  
Biochemistry \*24006  
BC Muridae 86375  
IT Miscellaneous Descriptors  
CANCER CACHEXIA MALNUTRITION PROTEIN  
SYNTHESIS

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2003  
BIOLOGICAL ABSTRACTS INC.  
AN 1985:407511 BIOSIS  
DN BA80:77503  
TI \*\*\*SKIN\*\*\* PENETRATION OF MINERALS IN  
PSORIATICS AND GUINEA-PIGS  
BATHING IN HYPERTONIC SALT SOLUTIONS.  
AU SHANI J; BARAK S; LEVI D; RAM M;  
SCHACHNER E R; SCHLESINGER T; ROBBERECHT  
H; VAN GRIEKEN R; AVRACH W W  
CS DEPARTMENT OF PHARMACOL., HEBREW  
UNIVERSITY SCHOOL OF PHARMACY, POB 12065,  
JERUSALEM.  
SO PHARMACOL RES COMMUN, (1985) 17 (6), 501-  
512.  
CODEN: PLRCAT. ISSN: 0031-6989.  
FS BA; OLD  
LA English

AB Penetration of electrolytes through the human \*\*\*skin\*\*\* was measured in healthy volunteers and in psoriatic patients after bathing in the Dead-Sea or in simulated bath-salt solutions. Significant increases in the levels of serum Br, Rb, Ca and Zn were noticed only in the psoriatic patients after daily bathing in the Dead-Sea for a 4-wk regimen.

Guinea-pigs bathed in simulated Dead-Sea bath-salt solutions containing radionuclides of Ca, Mg, K and Br. Traces of each radionuclide were detected in the blood and in some internal organs after 60 min of bathing. The radionuclides showed a physiological pattern in their organ distribution. Even though the whole investigation was carried out in hypertonic solutions, there is a definite penetration of salts through healthy (human and guinea-pigs) and damaged (psoriatic) \*\*\*epidermis\*\*\*.

. Improvement of the psoriatic condition after bathing in the Dead-Sea may be partly attributed (in addition to UV irradiation) to the minerals' effect on the psoriatic \*\*\*skin\*\*\*.

CC Radiation - Radiation and Isotope Techniques 06504

Biochemical Studies - Minerals \*10069

External Effects - Light and Darkness 10604

Physiology, General and Miscellaneous - Exercise and Physical Therapy \*12010

Pathology, General and Miscellaneous - Therapy \*12512

Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies 15002

Integumentary System - Pathology \*18506

BC Hominidae 86215

Caviidae 86300

IT Miscellaneous Descriptors

HUMAN BROMINE \*\*\*RUBIDIUM\*\*\*

\*\*\*CALCIUM\*\*\* \*\*\*ZINC\*\*\*

\*\*\*CALCIUM\*\*\* MAGNESIUM

\*\*\*POTASSIUM\*\*\* DEAD SEA

RN 7439-95-4 (MAGNESIUM)

7440-09-7 (POTASSIUM)

7440-17-7 (RUBIDIUM)

7440-66-6 (ZINC)

7440-70-2 (CALCIUM)

7726-95-6 (BROMINE)